

TITLE: METHOD FOR CONVERTING UNITS OF MEASUREMENT**ABSTRACT**

A method for performing unit conversions. The method employs a calculating device comprised of an alphanumeric keypad and a display device. Required inputs include a numeric value, or an expression that can be evaluated as a numeric value, representing the quantity of the unit string to be converted from, an undesired unit string and a desired unit string. Each unit string can consist of a single unit or a plurality of units joined by arithmetic symbols. Units are entered by typing the full spelling of the unit name or the spelling of an alias name on an alphanumeric keypad. The method segregates the unit string into its component parts, specifically, unit names, positive and negative exponents, multiplication and division. Each numerator and denominator undesired unit is respectively converted to a numerator and denominator desired unit. All derived units which can not be converted are replaced with their equated unit string comprised of two or more other units which may be base units or other derived units. The conversion process continues until all numerator and denominator units are converted, or until there are no more derived units to substitute other units for. If all units are successfully converted, the conversion factors used in the conversion process are multiplied together and multiplied by the numeric input value. The result is then displayed.